PATENT COOPERATION TREATY

From the INTERNATIONAL BUREAU

NOTIFICATION OF TRANSMITTAL OF COPIES OF TRANSLATION OF THE INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (CHAPTER I OR CHAPTER II OF THE PATENT COOPERATION TREATY) (PCT Rules 44bis.3(c) and 72.2)

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Date of mailing (day/month/year) 06 July 2006 (06.07.2006)	學務所
Applicant's or agent's file reference K12F1391	IMPORTANT NOTIFICATION
International application No. PCT/JP2004/011696	International filing date (day/month/year) 13 August 2004 (13.08.2004)
Applicant	TAKEO, Satoshi et al

l.	Transmittal	of the	translation	to	the ap	plicant.
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patentability (Chapter II).

~	The International Bureau transmits herewith a copy of the English translation of the international preliminary reports patentability (Chapter I).				
	The International Bureau transmits herewith a copy of the English translation of the international preliminary report on				

Transmittal of the copy of the translation to the designated or elected Offices.

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following designated or elected Offices requiring such translation:

None

The following designated or elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:

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3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability (Chapter II).

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned within the applicable time limit (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

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Form PC:T/IB/338 (January 2004)

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference K12F1391	FOR FURTHER ACTION	See item 4 below			
International application No. PCT/JP2004/011696	International filing date (day/month/year) 13 August 2004 (13.08.2004)	Priority date (day/month/year) 14 October 2003 (14.10.2003)			
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237					
Applicant TAKEO, Satoshi					

1.	. This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis. 1(a).					
2.	This REPORT consists of a total In the attached sheets, any refer to the international preliminary	ence to the written opinion of	the International Searching Authority should be read as a reference			
3.	This report contains indications	relating to the following item	ıs:			
	Box No. I	Basis of the report				
	Box No. II	Priority				
	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability				
	Box No. IV	Lack of unity of invention	1			
	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
	Box No. VI	Certain documents cited				
	Box No. VII	Certain defects in the international application				
	Box No. VIII	Certain observations on th	ne international application			
4.	The International Bureau will conot, except where the applicant date (Rule 44bis .2).	ommunicate this report to des makes an express request und	ignated Offices in accordance with Rules 44 <i>bis</i> .3(c) and 93 <i>bis</i> .1 but er Article 23(2), before the expiration of 30 months from the priority			
		·	Date of issuance of this report 26 June 2006 (26.06.2006)			
	The International Bure	an of WIPO	Authorized officer			

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PATENT COOPERATION TREATY

TRANSLATION From the INTERNATIONAL SEARCHING AUTHORITY WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) Applicant's or agent's file reference FOR FURTHER ACTION K12F1391 See paragraph 2 below International application No. International filing date (day/month/vear) Priority date (day/month/year) PCT/JP2004/011696 13.08.2004 14.10.2003 International Patent Classification (IPC) or both national classification and IPC Applicant TAKEO, Satoshi This opinion contains indications relating to the following items: Box No. I Basis of the opinion Box No. II Priority Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. IV Lack of unity of invention Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial Box No. V applicability; citations and explanations supporting such statement Box No. VI Certain documents cited Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application 2. **FURTHER ACTION** If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220. Name and mailing address of the ISA/JP Authorized officer

Telephone No.

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Box	No. I	Basis of this opinion
1.	With i	regard to the language, this opinion has been established on the basis of the international application in the language in which it was unless otherwise indicated under this item.
		This opinion has been established on the basis of a translation from the original language into the following language
	_	, which is the language of a translation furnished for the purposes of international search (under
		Rule 12.3 and 23.1(b)).
2.		regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed ion, this opinion has been established on the basis of:
	a. 1	type of material
	L	a sequence listing
	L	table(s) related to the sequence listing
	b. 1	format of material
		in written format
		in computer readable form
	c. t	ime of filing/furnishing
	Ε	contained in the international application as filed.
		filed together with the international application in computer readable form.
		furnished subsequently to this Authority for the purposes of search.
3.	_ (n addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or turnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4.	Additi	onal comments:

Box No. 1	Non-establishment of opin	sion with regard to novelty, inventive step and industrial applicability
The quest applicable	tions whether the claimed invention as a have not been examined in respect of:	appears to be novel, to involve an inventive step (to be non obvious), or to be industrially:
	the entire international application	
	claims Nos. 13-18	
becaus	se:	
	the said international application, or t relate to the following subject matter	the said claims Nos. 13-18 which does not require an international preliminary examination (specify):
		rs of claims 13-18 are methods for treatment of the human body by (a)(i) and PCT Rule 67.1(iv))
	the description, claims or drawings (in are so unclear that no meaningful opin	indicate particular elements below) or said claims Nos. inion could be formed (specify):
	the claims, or said claims Nos. by the description that no meaningful	opinion could be formed.
\boxtimes	no international search report has been	n established for said claims Nos. 13-18
	the nucleotide and/or amino acid sequ Instructions in that:	uence listing does not comply with the standard provided for in Annex C of the Administrative
	the written form	has not been furnished
	the computer readable form	does not comply with the standard has not been furnished does not comply with the standard
		nd/or amino acid sequence listing. if in computer readable form only, do not comply with the a Annex C-bis of the Administrative Instructions.
	See Supplemental Box for further deta	ails.

Вох	x No. I	IV Lack of unity of invention
1.	\boxtimes	In response to the invitation (Form PCT/ISA/206) to pay additional fees the applicant has:
		paid additional fees
		paid additional fees under protest
		not paid additional fees
2.		This Authority found that the requirement of unity of invention is not complied with and chose not to invite the applicant to pay additional fees.
3.	This	Authority considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 is
		complied with
	\boxtimes	not complied with for the following reasons:
		Claims 1-12 and 19-24 It is considered that the technical feature common to claims 1-12 and 19-24 is a pharmaceutical product having a hepatocyte growth factor as an active ingredient. However, a pharmaceutical product having a hepatocyte growth factor as an active ingredient has been publicly known (see the documents cited in "Notification of Results of Partial International Search" in the attached document, if necessary), and so only with the abovementioned technical feature, there is no technical relationship in the inventions of the present application involving one or more of the same or corresponding special technical features. Therefore, the present application does not relate to a single invention, nor a group of inventions so linked as to form a single general inventive concept, and so does not satisfy the requirement of unity of invention. Finally the present application contains two different inventions based on the technical features of combinations of a hepatocyte growth factor as an active ingredient with specific diseases to be treated with it, the said inventions not meeting the requirement of unity of invention. i) The invention of claims 1-4, 7-10 and 19-22 ii) The invention of claims 5, 6, 11, 12, 23 and 24
4.	Cons	sequently, this opinion has been established in respect of the following parts of the international application:
		all parts
	\boxtimes	the parts relating to claims Nos. 1-12, 19-24

International application No.
PCT/JP2004/011696

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			ıl applicability;	
1.	Statement			
	Novelty (N)	Clain	6, 12, 24	YES
		Clain	1-5, 7-11, 19-23	МО
	Inventive step	(IS) Claim	ns	YES
		Claim	1-12, 19-24	NO NO
	Industrial app	licability (IA) Claim	_{ss} <u>1-12, 19-24</u>	YES
		Claim	ıs	NO

2. Citations and explanations:

This opinion is based on the descriptions in the following documents cited in the ISR:

Document 1: WO, 95-07709, A1 (Sumitomo Pharmaceuticals Co., Ltd.)

Document 2: JP, 7-41429, A (Mitsubishi Chemical Corp.)

Document 3: WO, 01-21214, A1 (MedGene Bioscience Co., Ltd.)

Document 4: Society for Neuroscience Abstracts, (M. Akimoto, et al.), 1998, 24(1-2), page 687

Document 5: Society for Neuroscience Abstracts, (N. Matsuki, et al.), 2000, 26(1-2), Abstract no. 420.1

Document 6: (Maki Yamada, et al.), Proceedings of the 24th Annual Meeting of the Neuroscience Society 2001, page 392

Document 7: (S. Takeo, et al.), Biochemistry, 2003, 75(8), abstract no. 4S81-5, page 774

Document 8: WO, 03-037365, A1 (The Johns Hopkins University)

Document 9: (Koran Ryu, et al.), J. Jpn. Med. Soc. Biol. Interface, 2000, 31, pages 11-16

Document 10: WO, 02-30908, A1 (Knoll GmbH)

Document 11: JP, 2003-506368, A (BASF AG.)

Claims 1-4, 7-10 and 19-22

Document 1 (the claims, examples, page 8, lines 18-28, and page 9, lines 25-30) mentions that HGF is useful for the treatment of nerve degeneration illness such as dementia and Alzheimer disease. Document 2 (the claims, examples and paragraph [0015]) mentions that HGF is useful for the treatment of dementia including Alzheimer's disease, memory disorder, neural disorder, and so on. Document 3 (the claims and examples) mentions that HGF is useful for the treatment or prevention of cerebrovascular diseases, specifically including brain infarction and Alzheimer's dementia. Documents 4 and 5 mention that HGF is useful for improving learning difficulty. Document 6 mentions that HGF is useful for the acquisition and fixing of memory. Document 7 mentions that HGF improves long memory retention dysfunction, and is useful for the improvement of higher central dysfunction.

Accordingly, the subject matters of claims 1-4, 7-10 and 19-22 are described in documents 1-7.

Accordingly, the subject matters of claims 1-4, 7-10 and 19-22 do not appear to be novel or to involve an inventive step in view of the descriptions in documents 1-7.

Claims 5, 6, 11, 12, 23 and 24

Document 8 (the claims and examples) and document 9 mention that HGF inhibits vascular hyperpermeability, particularly in pulmonary disorders.

The subject matters of claims 6, 11 and 24 are different from the inventions of documents 8 and 9 in that the said subjects are restricted to cases where the blood vessels are brain blood vessels; however, it is publicly known, as mentioned in documents 10 and 11, that diseases due to vascular

	7.				70120047011070
Reasoned statem citations and exp	nent under Rule 4. planations suppor	3bis.1(a)(i) with ting such statem	regard to novelty	v, inventive step or	industrial applicability;
s for vascular hingly, using HG blood vessels verset to the subject to step in view of the step in view of	syperpermeabing of described in would not have matters of classification of the descript	ility are often in documents be required pairs 5, 11 artions in docu	n useful for b 8 and 9 for i articular crea and 23 do not a aments 8 and	oth pulmonary mproving vasc tivity for a perappear to be no 9, and the subj	and brain blood vesse cular hyperpermeability son skilled in the art. ovel or to involve an ect matters of claims 6
	citations and expression of the capacitation o	citations and explanations suppor rmeability can occur in pulms for vascular hyperpermeabingly, using HGF described in blood vessels would not have So, the subject matters of class step in view of the descriptor.	rmeability can occur in pulmonary as we so for vascular hyperpermeability are often ngly, using HGF described in documents blood vessels would not have required poor, the subject matters of claims 5, 11 are step in view of the descriptions in documents	rmeability can occur in pulmonary as well as in brain is for vascular hyperpermeability are often useful for bingly, using HGF described in documents 8 and 9 for inblood vessels would not have required particular creations, the subject matters of claims 5, 11 and 23 do not a set to the step in view of the descriptions in documents 8 and	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or